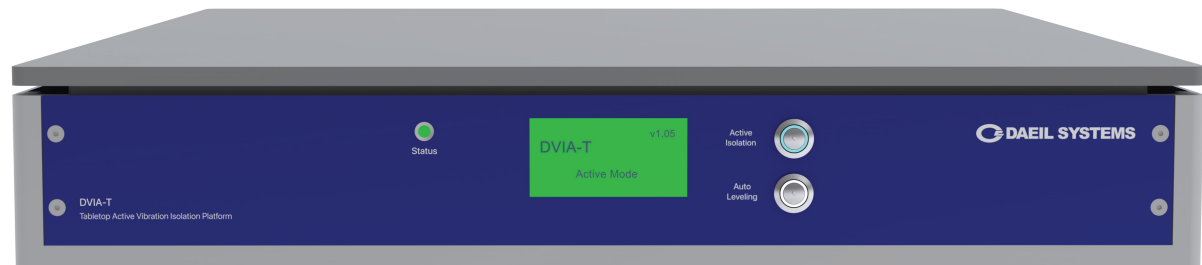




Active Vibration Isolation System DVIA-T Series



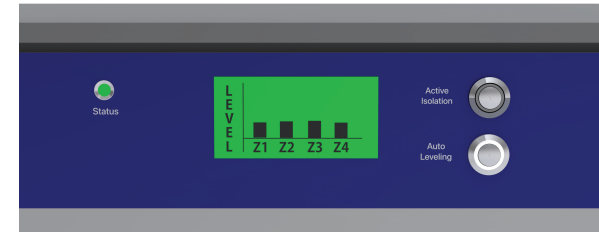
DVIA-T Series

The world's most advanced tabletop active vibration isolation system.



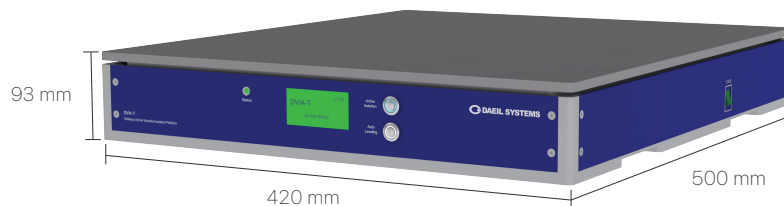
Simply plug and play.

The DVIA-T is a pre-tuned active vibration isolation system that requires no on-site tuning. Users need only connect the power cable and begin operating the system by pressing the front-panel buttons.



Precise automatic leveling.

The DVIA-T features automatic leveling, which maintains the platform level relative to the payload with a repeatability of ± 0.08 mm.



Portable, lightweight, and compact.

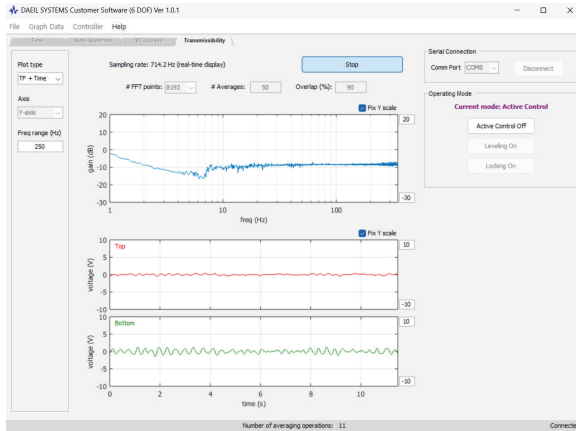
Measuring just 420 × 500 × 93 mm and weighing only 25 kg, the smallest DVIA-T is light enough to be hand-carried and installed almost anywhere.

No external air supply required.

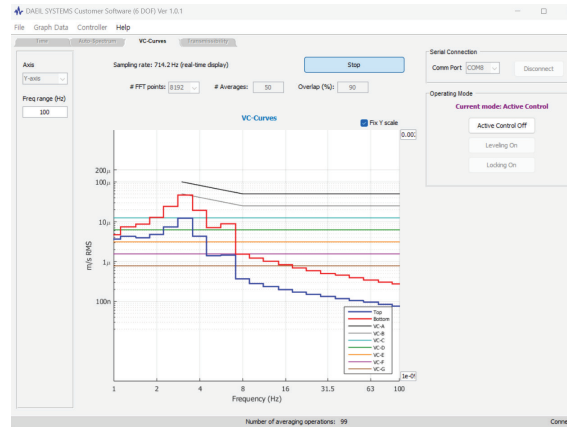
The DVIA-T series does not require an external air supply; it operates solely on electricity. Simply connect the power cable to begin operation.

User interface for experiencing vibration isolation.

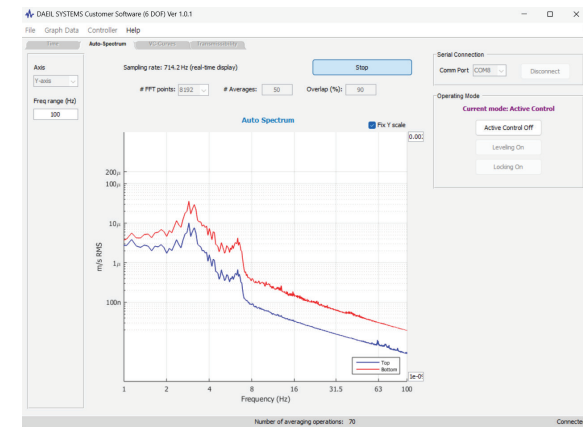
The DVIA-T features an intuitive user interface that provides real-time monitoring of vibration data, isolation performance, and sensor- and actuator-activity.



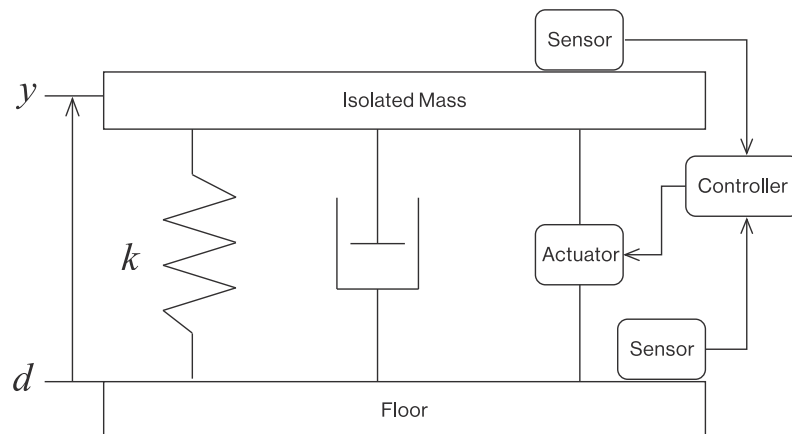
Transmissibility curves



Vibration Criterion (VC) Curves



Auto-spectrum

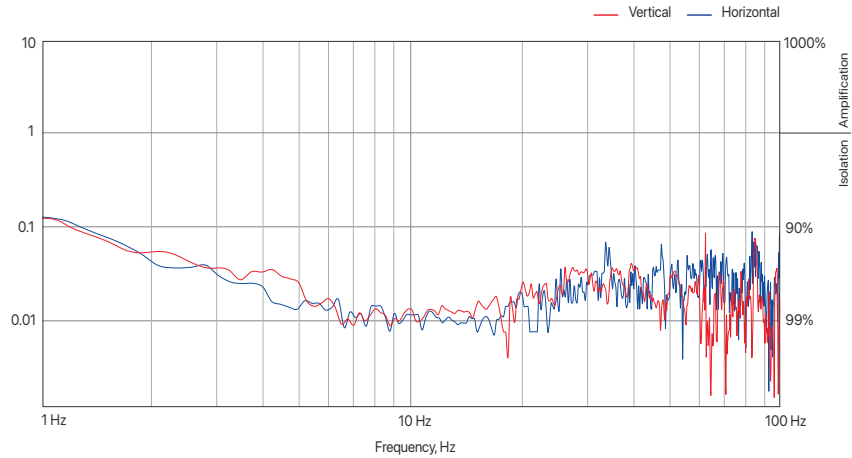


With feedback- and feedforward-control algorithms, the system achieves superior isolation performance.

The feedback control system continuously measures the isolated mass's vibration and uses the actuators to counteract it in real time. Meanwhile, the feedforward control system leverages ground sensor data to proactively command the actuators, nullifying floor vibrations before they reach the isolated mass. Together, these advanced control mechanisms significantly enhance the DVIA-T Series' vibration isolation performance, particularly at low frequencies.

Performance

The DVIA-T delivers 80 – 90% isolation at 1 Hz and 90 – 99% isolation at 2 Hz.



Specifications

Model	DVIA-T45	DVIA-T56	DVIA-T67	DVIA-T78
Dimensions (mm)	420 x 500 x 93	500 x 600 x 93	600 x 700 x 93	700 x 800 x 93
Maximum Load Capacity	90 kg (150 kg optional)			
Vibration Isolation Technology	Feedback and Feedforward Control			
Degrees of Freedom	6 DOF			
Active Isolation Bandwidth	0.5 – 200 Hz			
Vibration Isolation	80 – 90% at 1 Hz, 90 – 99% at 2 Hz			
Actuator	Electromagnetic Actuator			
Maximum Actuator Force	Vertical: 12 N, Horizontal: 12 N			
Vibration Sensor	Velocity, Sensitivity: 100.4 V/m/s ±10%			
Response Time	< 0.5 ms			
Leveling Repeatability	±0.08 mm			
Magnetic Field	< 0.05 μT			
Controller	Built-in			
Compliance / Certifications	CE, TÜV			
Power Requirements	100–240 V AC, 50/60 Hz			
Environmental Requirements	Temperature: 5–50 °C, Humidity: 20–90 %			